## SEQUENCE LISTING

## IAP20 Rac'd PCT/PTO 23 DEC 2005

- <110> Vuolteenaho, Olli Ala-Kopsala, Minna Ruskoaho, Heikki Leppaluoto, Juhani Haapalahti, Jouko
- <120> Assay
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- <150> PCT/EP2004/006971
- <151> 2004-06-28
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- <151> 2003-06-30
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	370					375					380				Glu
Asn 385	Gly	Ala	Phe	Arg	Val 390	Val	Leu	Asn	Tyr	Asn 395	Gly	Thr	Ser	Gln	Glu 400

Leu Val Ala Val Ser Gly Arg Lys Leu Asn Trp Pro Leu Gly Tyr Pro 405 Pro Pro Asp Ile Pro Lys Cys Gly Phe Asp Asn Glu Asp Pro <210> 35 <211> 1047 <212> PRT <213> Homo sapiens <400> 35 Met Ala Leu Pro Ser Leu Leu Leu Val Ala Ala Leu Ala Gly Gly 5 10 Val Arg Pro Pro Gly Ala Arg Asn Leu Thr Leu Ala Val Val Leu Pro 25 Glu His Asn Leu Ser Tyr Ala Trp Ala Trp Pro Arg Val Gly Pro Ala Val Ala Leu Ala Val Glu Ala Leu Gly Arg Ala Leu Pro Val Asp Leu Arg Phe Val Ser Ser Glu Leu Glu Gly Ala Cys Ser Glu Tyr Leu Ala 65 70 Pro Leu Ser Ala Val Asp Leu Lys Leu Tyr His Asp Pro Asp Leu Leu 85 90 Leu Gly Pro Gly Cys Val Tyr Pro Ala Ala Ser Val Ala Arg Phe Ala 100 105 110 Ser His Trp Arg Leu Pro Leu Leu Thr Ala Gly Ala Val Ala Ser Gly 115 Phe Ser Ala Lys Asn Asp His Tyr Arg Thr Leu Val Arg Thr Gly Pro Ser Ala Pro Lys Leu Gly Glu Phe Val Val Thr Leu His Gly His Phe 145

170

175

Asn Trp Thr Ala Arg Ala Ala Leu Leu Tyr Leu Asp Ala Arg Thr Asp

165

Asp	Arg	Pro	180	Tyr	Pne	Thr	116	185	GIY	vaı	Pne	GIU	190	Leu	GIN
Gly	Ser	Asn 195	Leu	Ser	Val	Gln	His 200	Gln	Val	Tyr	Ala	Arg 205	Glu	Pro	Gly
Gly	Pro 210	Glu	Gln	Ala	Thr	His 215	Phe	Ile	Arg	Ala	Asn 220	Gly	Arg	Ile	Val
Tyr 225	Ile	Cys	Gly	Pro	Leu 230	Glu	Met	Leu	His	Glu 235	Ile	Leu	Leu	Gln	Ala 240
Gln	Arg	Glu	Asn	Leu 245	Thr	Asn	Gly	Asp	Tyr 250	Val	Phe	Phe	Tyr	Leu 255	Asp
Val	Phe	Gly	Glu 260	Ser	Leu	Arg	Ala	Gly 265	Pro	Thr	Arg	Ala	Thr 270	Gly	Arg
Pro	Trp	Gln 275	Asp	Asn	Arg	Thr	Arg 280	Glu	Gln	Ala	Gln	Ala 285	Leu	Arg	Glu
Ala	Phe 290	Gln	Thr	Val	Leu	Val 295	Ile	Thr	Tyr	Arg	Glu 300	Pro	Pro	Asn	Pro
Glu 305	Tyr	Gln	Glu	Phe	Gln 310	Asn	Arg	Leu	Leu	Ile 315	Arg	Ala	Arg	Glu	Asp 320
Phe	Gly	Val	Glu	Leu 325	Gly	Pro	Ser	Leu	Met 330	Asn	Leu	Ile	Ala	Gly 335	Cys
Phe	Tyr	Asp	Gly 340	Ile	Leu	Leu	Tyr	Ala 345	Glu	Val	Leu	Asn	Glu 350	Thr	Ile
Gln	Glu	Gly 355	Gly	Thr	Arg	Glu	Asp 360	Gly	Leu	Arg	Ile	Val 365	Glu	Lys	Met
Gln	Gly 370	Arg	Arg	Tyr	His	Gly 375	Val	Thr	Gly	Leu	Val 380	Val	Met	Asp	Lys
Asn	Asn	Asp	Arg	Glu	Thr	Asp	Phe	Val	Leu	Trp	Ala	Met	Gly	Asp	Leu

Asp	Ser	Gly	Asp	Phe 405	Gln	Pro	Ala	Ala	His 410	Tyr	Ser	Gly	Ala	Glu 415	Lys
Gln	Ile	Trp	Trp 420	Thr	Gly	Arg	Pro	Ile 425	Pro	Trp	Val	Lys	Gly 430	Ala	Pro
Pro	Ser	Asp 435	Asn	Pro	Pro	Cys	Ala 440	Phe	Asp	Leu	Asp	Asp 445	Pro	Ser	Cys
Asp	Lys 450	Thr	Pro	Leu	Ser	Thr 455	Leu	Ala	Ile	Val	Ala 460	Leu	Gly	Thr	Gly
Ile 465	Thr	Phe	Ile	Met	Phe 470	Gly	Val	Ser	Ser	Phe 475	Leu	Ile	Phe	Arg	Lys 480
Leu	Met	Leu	Glu	Lys 485	Glu	Leu	Ala	Ser	Met 490	Leu	Trp	Arg	Ile	Arg 495	Trp
Glu	Glu	Leu	Gln 500	Phe	Gly	Asn	Ser	Glu 505	Arg	Tyr	His	Lys	Gly 510	Ala	Gly
Ser	Arg	Leu 515	Thr	Leu	Ser	Leu	Arg 520	Gly	Ser	Ser	Tyr	Gly 525	Ser	Leu	Met
Thr	Ala 530	His	Gly	Lys	Tyr	Gln 535	Ile	Phe	Ala	Asn	Thr 540	Gly	His	Phe	Lys
Gly 545	Asn	Val	Val	Ala	Ile 550	Lys	His	Val	Asn	Lys 555	Lys	Arg	Ile	Glu	Leu 560
Thr	Arg	Gln	Val	Leu 565	Phe	Glu	Leu	Lys	His 570	Met	Arg	Asp	Val	Gln 575	Phe
Asn	His	Leu	Thr 580	Arg	Phe	Ile	Gly	Ala 585	Cys	Ile	Asp	Pro	Pro 590	Asn	Ile
Cys	Ile	Val 595	Thr	Glu	Tyr	Cys	Pro 600	Arg	Gly	Ser	Leu	Gln 605	Asp	Ile	Leu
Glu	Asn	Asp	Ser	Ile	Asn	Leu 615	Asp	Trp	Met	Phe	Arg	Tyr	Ser	Leu	Ile

Asn Asp I 625	Jeu Val	Lys Gly 630		Ala	Phe	Leu	His 635	Asn	Ser	Ile	Ile	Ser 640
Ser His G	Sly Ser	Leu Lys 645	Ser	Ser	Asn	Cys 650	Val	Val	Asp	Ser	Arg 655	Phe
Val Leu L	ys Ile 660	Thr Asp	Tyr	Gly	Leu 665	Ala	Ser	Phe	Arg	Ser 670	Thr	Ala
Glu Pro A	Asp Asp 575	Ser His	Ala	Leu 680	Tyr	Ala	Lys	Lys	Leu 685	Trp	Thr	Ala
Pro Glu I 690	Leu Leu	Ser Gly	Asn 695	Pro	Leu	Pro	Thr	Thr 700	Gly	Met	Gln	Lys
Ala Asp V 705	/al Tyr	Ser Phe		Ile	Ile	Leu	Gln 715	Glu	Ile	Ala	Leu	Arg 720
Ser Gly F	Pro Phe	Tyr Leu 725	Glu	Gly	Leu	Asp 730	Leu	Ser	Pro	Lys	Glu 735	Ile
Val Gln I	ys Val 740	Arg Asn	Gly	Gln	Arg 745	Pro	Tyr	Phe	Arg	Pro 750	Ser	Ile
Asp Arg T	Chr Gln 755	Leu Asn	Glu	Glu 760	Leu	Val	Leu	Leu	Met 765	Glu	Arg	Cys
Trp Ala G	Gln Asp	Pro Ala	Glu 775	Arg	Pro	Asp	Phe	Gly 780	Gln	Ile	Lys	Gly
Phe Ile A	Arg Arg	Phe Asn 790		Glu	Gly	Gly	Thr 795	Ser	Ile	Leu	Asp	Asn 800
Leu Leu I	Leu Arg	Met Glu 805	Gln	Tyr	Ala	Asn 810	Asn	Leu	Glu	Lys	Leu 815	Val
Glu Glu A	Arg Thr 820	Gln Ala	Tyr	Leu	Glu 825	Glu	Lys	Arg	Lys	Ala 830	Glu	Ala
Leu Leu T	Tyr Gln 835	Ile Leu	Pro	His 840	Ser	Val	Ala	Glu	Gln 845	Leu	Lys	Arg
Gly Glu T	Thr Val	Gln Ala	Glu	Ala	Phe	Asp	Ser	Val	Thr	Ile	Tyr	Phe

850 855 860

Ser Asp Ile Val Gly Phe Thr Ala Leu Ser Ala Glu Ser Thr Pro Met 865 870 875 880

Gln Val Val Thr Leu Leu Asn Asp Leu Tyr Thr Cys Phe Asp Ala Ile 885 890 895

Ile Asp Asn Phe Asp Val Tyr Lys Val Glu Thr Ile Gly Asp Ala Tyr 900 905 910

Met Val Val Ser Gly Leu Pro Gly Arg Asn Gly Gln Arg His Ala Pro 915 920 925

Glu Ile Ala Arg Met Ala Leu Ala Leu Leu Asp Ala Val Ser Ser Phe 930 935 940

Arg Ile Arg His Arg Pro His Asp Gln Leu Arg Leu Arg Ile Gly Val 945 950 955 960

His Thr Gly Pro Val Cys Ala Gly Val Val Gly Leu Lys Met Pro Arg 965 970 975

Tyr Cys Leu Phe Gly Asp Thr Val Asn Thr Ala Ser Arg Met Glu Ser 980 985 990

Asn Gly Gln Ala Leu Lys Ile His Val Ser Ser Thr Thr Lys Asp Ala 995 1000 1005

Leu Asp Glu Leu Gly Cys Phe Gln Leu Glu Leu Arg Gly Asp Val 1010 1015 1020

Glu Met Lys Gly Lys Gly Lys Met Arg Thr Tyr Trp Leu Leu Gly 1025 1030 1035

Glu Arg Lys Gly Pro Pro Gly Leu Leu 1040 1045

<210> 36

<211> 541

<212> PRT

<213> homo sapiens

<400> 36

Met Pro Ser Leu Leu Val Leu Thr Phe Ser Pro Cys Val Leu Leu Gly Trp Ala Leu Leu Ala Gly Gly Thr Gly Gly Gly Val Gly Gly Gly Gly Gly Gly Ala Gly Ile Gly Gly Gly Arg Gln Glu Arg Glu Ala Leu Pro Pro Gln Lys Ile Glu Val Leu Val Leu Pro Gln Asp Asp Ser Tyr Leu Phe Ser Leu Thr Arg Val Arg Pro Ala Ile Glu Tyr Ala Leu Arg Ser Val Glu Gly Asn Gly Thr Gly Arg Arg Leu Leu Pro Pro Gly Thr Arg Phe Gln Val Ala Tyr Glu Asp Ser Asp Cys Gly Asn Arg Ala Leu Phe Ser Leu Val Asp Arg Val Ala Ala Ala Arg Gly Ala Lys Pro Asp Leu Ile Leu Gly Pro Val Cys Glu Tyr Ala Ala Ala Pro Val Ala Arg Leu Ala Ser His Trp Asp Leu Pro Met Leu Ser Ala Gly Ala Leu Ala Ala Gly Phe Gln His Lys Asp Ser Glu Tyr Ser His Leu Thr Arg Val Ala Pro Ala Tyr Ala Lys Met Gly Glu Met Met Leu Ala Leu Phe Arg His His Trp Ser Arg Ala Ala Leu Val Tyr Ser Asp Asp Lys Leu Glu Arg Asn Cys Tyr Phe Thr Leu Glu Gly Val His Glu Val Phe 

Gln 225	Glu	Glu	Gly	Leu	His 230	Thr	Ser	Ile	Tyr	Ser 235	Phe	Asp	Glu	Thr	Lys 240
Asp	Leu	Asp	Leu	Glu 245	Asp	Ile	Val	Arg	Asn 250	Ile	Gln	Ala	Ser	Glu 255	Arg
Val	Val	Ile	Met 260	Cys	Ala	Ser	Ser	Asp 265	Thr	Ile	Arg	Ser	Ile 270	Met	Leu
Val	Ala	His 275	Arg	His	Gly	Met	Thr 280	Ser	Gly	Asp	Tyr	Ala 285	Phe	Phe	Asn
Ile	Glu 290	Leu	Phe	Asn	Ser	Ser 295	Ser	Tyr	Gly	Asp	Gly 300	Ser	Trp	Lys	Arg
Gly 305	Asp	Lys	His	Asp	Phe 310	Glu	Ala	Lys	Gln	Ala 315	Tyr	Ser	Ser	Leu	Gln 320
Thr	Val	Thr	Leu	Leu 325	Arg	Thr	Val	Lys	Pro 330	Glu	Phe	Glu	Lys	Phe 335	Ser
Met	Glu	Val	Lys 340	Ser	Ser	Val	Glu	Lys 345	Gln	Gly	Leu	Asn	Met 350	Glu	Asp
Tyr	Val	Asn 355	Met	Phe	Val	Glu	Gly 360	Phe	His	Asp	Ala	Ile 365	Leu	Leu	Tyr
Val	Leu 370	Ala	Leu	His	Glu	Val 375	Leu	Arg	Ala	Gly	Tyr 380	Ser	Lys	Lys	Asp
Gly 385	Gly	Lys	Ile	Ile	Gln 390	Gln	Thr	Trp	Asn	Arg 395	Thr	Phe	Glu	Gly	Ile 400
Ala	Gly	Gln	Val	Ser 405	Ile	Asp	Ala	Asn	Gly 410	Asp	Arg	Tyr	Gly	Asp 415	Phe
Ser	Val	Ile	Ala 420	Met	Thr	Asp	Val	Glu 425	Ala	Gly	Thr	Gln	Glu 430	Val	Ile
Gly	Asp	Tyr 435	Phe	Gly	Lys	Glu	Gly 440	Arg	Phe	Glu	Met	Arg 445	Pro	Asn	Val
Lys	Tyr	Pro	Trp	Gly	Pro	Leu	Lys	Leu	Arg	Ile	Asp	Glu	Asn	Arg	Ile

450 455 460

Val Glu His Thr Asn Ser Ser Pro Cys Lys Ser Ser Gly Gly Leu Glu 465 470 475 480

Glu Ser Ala Val Thr Gly Ile Val Val Gly Ala Leu Leu Gly Ala Gly 485 490 495

Leu Leu Met Ala Phe Tyr Phe Phe Arg Lys Lys Tyr Arg Ile Thr Ile
500 505 510

Glu Arg Arg Thr Gln Glu Glu Ser Asn Leu Gly Lys His Arg Glu 515 520 525

Leu Arg Glu Asp Ser Ile Arg Ser His Phe Ser Val Ala 530 535 540